

Title (en)

SUPPORT STRUCTURE WITH IMPROVED STIFFNESS FOR AN ARTICULATED LINK CONVEYOR

Title (de)

TRAGSTRUKTUR MIT VERBESSERTER STEIFIGKEIT FÜR EINEN GELENKIGEN GLIEDERFÖRDERER

Title (fr)

STRUCTURE DE SUPPORT À RIGIDITÉ AMÉLIORÉE POUR UN CONVOYEUR À LIAISON ARTICULÉE

Publication

EP 3964458 A1 20220309 (EN)

Application

EP 21193054 A 20210825

Priority

IT 202000021139 A 20200907

Abstract (en)

A support and guide structure (10) for a closed-loop articulated link conveyor is described, comprising: at least two guides (14A-14G), oriented according to respective development axis (X1-X7) and defining respective sliding surfaces for the conveyor; and at least one support component (12) comprising two surfaces (16, 18) opposite to each other, wherein the guides (14A-14G) protrude from a first surface (16) to define at least one sliding channel (20) to house at least one portion of the articulated links of the conveyor. The support and guide structure (10) comprises at least one housing (24; 24A, 24B; 24C, 24D) extending along a direction parallel to the development axis (X1-X7), and containing at least one respective reinforcing element (26A-26G) to limit the deformation of the support component (12). Each reinforcing element (26A-26G) has a cross-sectional shape which is compatible with the cross-sectional shape of the respective housing (24; 24A, 24B; 24C, 24D). Each reinforcing element (26A-26G) is manufactured with a material having a hardness which is greater than the hardness of the materials the guides (14A-14G) and the support component (12) are manufactured with.

IPC 8 full level

B65G 21/22 (2006.01); **B65G 15/62** (2006.01)

CPC (source: CN EP US)

B65G 15/52 (2013.01 - CN); **B65G 15/60** (2013.01 - CN); **B65G 17/086** (2013.01 - US); **B65G 21/16** (2013.01 - US); **B65G 21/20** (2013.01 - CN); **B65G 21/22** (2013.01 - EP); **B65G 15/62** (2013.01 - EP); **B65G 21/2009** (2013.01 - US); **B65G 21/2072** (2013.01 - US); **B65G 2207/30** (2013.01 - EP); **F16B 1/00** (2013.01 - US); **F16B 2200/83** (2023.08 - US)

Citation (applicant)

- EP 2907774 A1 20150819 - MOVEX S P A [IT]
- EP 3546394 A1 20191002 - MOVEX S P A [IT]
- EP 3572358 A1 20191127 - MOVEX S P A [IT]
- WO 2019016716 A1 20190124 - REGINA CATENE CALIBRATE SPA [IT]

Citation (search report)

- [AD] EP 2907774 A1 20150819 - MOVEX S P A [IT]
- [A] WO 2019016716 A1 20190124 - REGINA CATENE CALIBRATE SPA [IT]

Designated contracting state (EPC)

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